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118 and (encrypt\$ same java)	1

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USPT,JPAB,EPAB,DWPI,TDBD	protect\$ with (data or information or cop\$) with download\$	88	<u>L14</u>
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USPT,JPAB,EPAB,DWPI,TDBD	l7 and (protect\$ with cop\$)	0	<u>L11</u>
USPT,JPAB,EPAB,DWPI,TDBD	l6 and (java with applet\$1)	22	<u>L10</u>
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USPT	l1 and (java same applet\$1 same (secur\$ or access\$))	0	<u>L3</u>
USPT	l1 and (restrict\$ or limit\$ or lock\$ or unlock\$ or allow\$ or permi\$)	4	<u>L2</u>
USPT	4584665.pn. or 5359659.pn. or 5748731.pn. or 5235642.pn.	4	<u>L1</u>

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L14: Entry 13 of 88

File: USPT

Dec 12, 2000

US-PAT-NO: 6161184

DOCUMENT-IDENTIFIER: US 6161184 A

TITLE: Data storing medium processing apparatus for storing program to be executed in volatile memory area with no back-up battery

DATE-ISSUED: December 12, 2000

## INVENTOR-INFORMATION:

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## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
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APPL-NO: 8/ 933096

DATE FILED: September 18, 1997

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	8-259942	September 30, 1996

INT-CL: [7] G06F 11/30, G06F 12/14, H04L 9/00, H04L 9/32

US-CL-ISSUED: 713/200; 326/8, 380/3

US-CL-CURRENT: 713/200; 326/8, 380/255

FIELD-OF-SEARCH: 713/200, 713/300, 713/320, 713/323, 713/201, 713/202, 326/8, 365/185.04, 380/3, 705/18, 705/44, 711/163

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5642480	June 1997	Brownlee et al.	713/200
<input type="checkbox"/> 5668945	September 1997	Ohba et al.	713/200
<input type="checkbox"/> 5758121	May 1998	Fukuzumi	713/300
<input type="checkbox"/> 5781784	July 1998	McKinley	713/300
<input type="checkbox"/> 5901285	May 1999	Labatte et al.	713/200
<input type="checkbox"/> 5915025	June 1999	Taguchi	713/200
<input type="checkbox"/> 5920690	July 1999	Moyer et al.	713/200
<input type="checkbox"/> 5928361	July 1999	Nishimura et al.	713/200
<input type="checkbox"/> 5949882	September 1999	Angelo	713/200

ART-UNIT: 275

PRIMARY-EXAMINER: Beausoliel, Jr.; Robert W.

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ATTY-AGENT-FIRM: Pillsbury Madison & Sutro LLP

ABSTRACT:

A data processing apparatus comprises function for receiving a power supply from outside of the apparatus, and erasing a program stored in a volatile memory when the power supply is stopped, function for receiving the program from an external apparatus and storing the program in a volatile memory having no backup battery, and function for processing data in accordance with the stored program.

18 Claims, 11 Drawing figures

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L14: Entry 13 of 88

File: USPT

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DOCUMENT-IDENTIFIER: US 6161184 A

TITLE: Data storing medium processing apparatus for storing program to be executed in volatile memory area with no back-up battery

DEPR:

el. 30

As described above, the program/data downloaded from the host apparatus 8 is encrypted, and when the data processing apparatus (card reader CR) receives it, at least program is decrypted and stored in the memory area B. According to the present invention, the encrypted data in the command processing is decrypted in necessity, and thus the security when the program/data is transmitted from the host apparatus 8 to the data processing apparatus (card reader) CR is protected.